

217/782-2113

PERMIT DENIAL

CERTIFIED MAIL 153441

December 9, 1982

The Sherman Williams Co. 11541 South Champlain Avenue Chicago, Illinois 60628

Attention: Stanley R. Fryzel

EPA Region 5 Records Ctr.



355910

Application No.:

72100425

I.D. No.:

031600AH0

Applicant's Designation:

RPM-04

Received:

Movember 12, 1982

Operation of:

Zone Tank Reactor #4 and Auxiliaries

Location:

11541 South Champlain Avenue, Chicago, Illinois

#### Gentlemen:

This Agency has reviewed your Application for Operating Permit for the above referenced project. The permit application is DENIED because the Illinois Environmental Protection Act, Section 9, and the Illinois Pollution Control Board Rules and Regulations, Chapter 2: Air Pollution, Rule(s) 103(b)(6)(A) might be violated.

The following are specific reasons why the Act and the Rules and Regulations may not be met:

Pursuant to Rule 103(b)(6)(A), an operating permit application must show compliance with the Act and applicable Board regulations. This operating permit application does not make this showing for the same reasons as accompanying construction permit application 82110038 which the Agency has also refused to issue.

In addition, pursuant to Rule 103(b)(6)(B), no operating permit application may be granted for emission sources or air pollution control equipment unless it "... has been constructed or modified in accordance with all conditions in the construction permit, where applicable ... ."

This operating permit application is denied only for the zone tank reactor #4 and auxiliaries and for the above-mentioned deficiency, based upon your application of November 12, 1982. This action does not change the status or the expiration date of the operating permit granted earlier.

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Page 2

The Agency will be pleased to re-evaluate your permit application on receipt of your written request and the necessary information and documentation to correct or clarify the deficiencies noted above. Two copies of this information must be submitted and should reference the application and I.D. numbers assigned above. The revised application will be considered filed on the date that the Agency receives your written request.

If you have any questions concerning this denial, please contact Paul Purseglove at 217/782-2113.

Very truly yours,

Bharat Mathur, P.E.

Manager, Permit Section

Division of Air Pollution Control

2M:PMP:sd/5910c/4-5

cc: Region 1

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# WITHHELD DOCUMENT



	APPLICATION FOR  TY CONSTRUCT  OF EQUIPMENT TO BE STRUCTED OR OPERATED and Auxiliar	OPERATE	(B)	DATE	NO	31 6 72 1	10 0425
la.	NAME OF OWNER: The Sherwin Williams Co.	, .		of operator: Sherwin	Williams Co	ο.	•
lb.	STREET ADDRESS OF OWNER:			T ADDRESS OF			· · · · · · · · · · · · · · · · · · ·
lc.	101 Prospect Ave., N.W.			OF OPERATOR:	Champlain A	Ave.	
<u> </u>	Cleveland			icago			
ld.	STATE OF OWNER: Ohio	le. ZIP CODE: 44115		OF OPERATOR: nois	:		2e. ZIP CODE: 60628
<u> </u>	01110	17744			· · · · · · · · · · · · · · · · · · ·		
3a.	NAME OF CORPORATE DIVISION OR PLANT: Chicago Site		1154	1 S. Cha	EMISSION SOURCE mplain Ave	•	
3с.	CITY OF EMISSION SOURCE: Chicago	3d. LOCATED WITHIN CITY LIMITS: YES NO	3e. TOWNS	HIP:	3f. COUNTY: Cook		3g. ZIP CODE: 60628
4.	ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL Stanley R. Fryzel  ADDRESS FOR CORRESPONDENCE: (CHECK ONLY		(312)	821-302	FOR AGENCY TO CAI 8 R THIS APPLICATIO		· · · · · · · · · · · · · · · · · · ·
<u> </u>	OPERATOR	EMISSION SOURCE	RPM-			o (c)	
		TOD A DEDUKT MAD OFFITE		CTATEMENTS (	CONTAINED HEREIN	ADE TOUR	AND CORDERT AND
8.	THE UNDERSIGNED HEREBY MAKES APPLICATION FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBY AFFIXING HIS SIGNATURE HERETO HE FURT	BMITTED INFORMATION REFE	RENCED IN TH	IS APPLICATION	ON REMAINS TRUE.	CORRECT	
1	AUTHORIZED SIGNATURE(S):(D)				$\Lambda \Omega$	$\Omega$	
	BY JBBaun	1/3/8.CE	IVE	· P	1. 1	hil	21/8
İ	·· SUNATURE	NOV 1 2	1982	IGNATURE A	. D. Childs	s	DATE
1	J.B. Baron TYPED OR PRINTED NAME OF SIGNER		Т	YPED OR PRINT	TED NAME OF SIGN	ER .	
	Mgr. Chicago Resin Manus	facturingA - DAP	C - SPFL	Vice Pre	sident and Corpora	Gener te Sec	ral Counsel and
(A)	THIS FORM IS TO PROVIDE THE AGENCY WITH ONLY BE USED TO REQUEST ONE TYPE OF PERM	GENERAL INFORMATION ABOU IT - CONSTRUCTION OR OPE	T THE EQUIPM	ENT TO BE CO	-		<del>-</del>
(B)	CLEARLY IDENTIFY THE GENERIC NAME OF THE PERMIT WHICH MAY BE ISSUED PURSUANT TO T	EQUIPMENT TO BE CONSTRU HIS APPLICATION. THIS F	CTED OR OPER ORM MUST BE	ACCOMPANIED	IDENTIFICATION W BY THE APPLICABL	IILL APPE LE ADDEND	AR ON THE A.
(c)	PROVIDE A NUMBER IN ITEM 7 ABOVE WHICH Y NUMBER WILL BE REFERENCED IN ALL CORRESP NOT EXCEED TEN (10) CHARACTERS.	OU WOULD LIKE THE AGENCY PONDENCE, RELATIVE TO THI	TO USE FOR S APPLICATIO	IDENTIFICATION, FROM THIS	ON OF YOUR EQUIP AGENCY. YOUR I	PMENT. Y	OUR IDENTIFICATION ATION NUMBER MUST
(D)	THIS APPLICATION MUST BE SIGNED IN ACCOR "ALL APPLICATIONS AND SUPPLEMENTS THERET CONTROL EQUIPMENT, OR THEIR AUTHORIZED A	O SHALL BE SIGNED BY THE	DWNER AND (	PERATOR OF T	HE EMISSION SOUR	RCE OR AT	R POLLUTION
	IF THE OWNER OR OPERATOR IS A CORPORATION OF THE CORPORATION'S BOARD OF DIRECTORS OPERATION OF THE EQUIPMENT TO BE COVERED	AUTHORIZING THE PERSONS	MAVE ON FIR SIGNING THIS	E WITH THE A S APPLICATION	GENCY A CERTIFIE TO CAUSE OR ALL	ED COPY O	F A RESOLUTION ONSTRUCTION OR

9.	AN OPERATING PERI A CONSTRUCTION PI SUBMITTED IN QUAL		UBMITTED IN <u>DUPLICATE</u> . STRUCTION IN <u>COOK COU</u> NTY	OUTSIDE OF THE CORPORATE	LIMITS OF CHICAGO MU	UST BE
l	A CONSTRUCTION P	ERMIT APPLICATION IN ALL	OTHER LOCATIONS MUST BE	SUBMITTED IN TRIPLICATE.		,
10.	ESTABLISHMENTS.	ANCES TO THE NEAKEST REST TE SUCH A PLOT PLAN AND	D MAP SHOWING DISTANCES T DENCES, LODGINGS, NURSING MAP HAS ALREADY BEEN SUBM 3 1 6 0 0 A H	HOMES, HOSPITALS, SCHOO	NE AND COMMEDICAL AND	MANUFACTURING IMBER AND PERMIT
11.	BI 1HIZ PERMIT AND C	PPLICATION. THE DIAGRAM	DIAGRAM DEPICTING ALL EF SHALL INCLUDE LABELS FOR OW RATES FOR (1) ALL PROP AND VENTS. NUMBER OF SHI	EACH EMISSION SOURCE AND	N FACH TYEM NE ATO DOL	LUTTON CONTROL
12.	SHALL COMPLETE AN	ID SUBMIT THE APPLICABLE I	AIR POLLUTION CONTROL EQ PERMIT APPLICATION FORMS. LUTION CONTROL EQUIPMENT	THE FLOW DIAGRAM SHALL	INDICATE THROUGH WHI	CH STACK OR VENT
13.	IF THIS IS AN APP OR CONSTRUCTION P	LICATION FOR AN OPERATING ERMITS, HE SHALL COMPLE	G PERMIT, AND THE APPLICAN TE FORM APC-210, ENTITLE	T IS INCORPORATING BY RE D "DATA AND INFORMATION	FERENCE PREVIOUSLY GR INCORPORATION BY R	ANTED INSTALLATION EFERENCE."
14.	AN AIR CONTAMINAI	LICATION FOR AN OPERATING T IN EXCESS OF APPLICABL ITLED "OPERATION DURING .	G PERMIT, AND THE STARTUP E STANDARDS, THE APPLICAN STARTUP."	OF ANY EMISSION SOURCE C IT MAY REQUEST PERMISSION	DESCRIBED BY THIS APPL N TO EXCEED SUCH STAND	ICATION PRODUCES PARDS BY COMPLETING
15.	DURING MALFUNCTION	INS OR BREAKDOWNS PURSUAN	G PERMIT, AND THE APPLICA T TO PCB REGS., CHAPTER 2 ION DURING MALFUNCTION AN	RILLE 105. THE APPLICAN	SSION TO OPERATE AN E IT MAY REQUEST SUCH PE	MISSION SOURCE RMISSION BY
16.	IF THIS IS AN APP WITH APPLICABLE R	LICATION FOR AN OPERATING	G PERMIT AND ALL OR ANY P T SHALL COMPLETE FORM APC	ART OF THE PROCESS MUST -202, ENTITLED "COMPLIAN	BE CONTROLLED OR MODI CE PROGRAM & PROJECT (	FIED TO COMPLY COMPLETION SCHEDULE."
17.		LICATION FOR AN OPERATING	G PERMIT, DOES THE OPERAT			
18.	GUVEKNING THE CON	SOURCE COVERED BY THIS A TROL OF AIR POLLUTION," A OF THE ENVIRONMENTAL PROT	APPLICATION, AS OF APRIL ADOPTED BY THE FORMER AIR FECTION ACT? Y New Const	POLLUTION CONTROL BOARD ES NO	WITH THE "RULES AND R AND CONTINUED EFFECT	EGULATIONS IVE PURSUANT
19.	IF THIS IS AN APP POLLUTION CONTROL	LICATION FOR AN OPERATING BOARD ON OR BEFORE JUNE	PERMIT, WAS THE OPERATION 13, 1972?	ON THE SUBJECT OF A VARIA	ANCE PETITION FILED W	ITH THE ILLINOIS
	IF "YES," CITE PC	B NUMBER(S):	DATE OF	BOARD ORDER:	·	
	WITH THE APPLICAB	LE IIMITATIONS OF THE "RU	1972, COMMENCED CONSTRUCT DLES AND REGULATIONS GOVE CCTIVE PURSUANT TO SECTION	INING THE CONTROL OF AIR	שחת שוו אחודוות יי אחודווו וחם	OV THE ENDMED AID
			EXPLANATION AS EXHIBIT D.		THE PROPERTY NOT . [	
	TOTAL NUMBER OF P	AGES IN EXHIBIT D:				
20.	PARTICULATE MATTE ON THE PLANT OR P	R. SULFUR DIOXIDE. CARBON	S PERMIT, THE APPLICANT SI M MONOXIDE, OXIDES OF NIT SHALL INCLUDE ALL EMISSION PLICATION.	ROGEN. AND ORGANIC MATER	IAL EMITTED FROM ALL S	SOURCES LOCATED
	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATER IAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS
PARTI MATTE	CULATE R		SULFUR DIOXIDE		NITROGEN OXIDES	-
		LB		t <u>B</u>		LB
ORGAN MATER			CARBON MONOX I DE			
· .		LB		L8		·
21.	WHAT IS THE SIZE	(IN ACRES) OF APPLICANT'S 135	S PREMISES?			
22.	LIST AND IDENTIFY AND STATE THE TOT	ALL FORMS, EXHIBITS, AND AL NUMBER OF PAGES IN THI	O OTHER INFORMATION SUBMIT	TTED AS PART OF THIS APP	LICATION. PLEASE N	· · · · · · · · · · · · · · · · · · ·



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		APPLICATION FOR CONSTRUCT  Zone Tank	,		I. D. NO. PERMIT NO.		· · · · · · · · · · · · · · · · · · ·
	E OF EQUIPMENT TO BE STRUCTED OR OPERATED	and Auxil	•	(B)	DATE		
L					<del></del>		· <del></del>
12	NAME OF OWNER:	<del></del>	<del></del>	2a. NAME O	F OPERATOR:		<del></del>
'".	The Sherwin Wil	liams Co.			herwin William	s Co.	•
lb.	STREET ADDRESS OF OWNER:				ADDRESS OF OPERATOR:	<del></del>	· · · · · · · · · · · · · · · · · · ·
ļ.,	101 Prospect Av	e., N.W.		2c. CITY 0	S. Champlain	lve.	<del></del>
10.	Cleveland				icago		•
ld.	STATE OF OWNER:		le. ZIP CODE:		OF OPERATOR:	<del></del>	Ze. ZIP CODE:
	Ohio		44115	I1:	linois		60628
							***
3a.	NAME OF CORPORATE DIVISION  Chicago Site	ON OR PLANT:			ADDRESS OF EMISSION S 1 S. Champlain		
3c.	CITY OF EMISSION SOURCE:		3d. LOCATED WITHIN CITY	30 TOUNCH		<u>-</u>	3g. ZIP CODE:
	Chicago		LIMITS: X YES NO		Cook		60628 -
	`						<del></del>
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4.	*Stanley R. Fryz		UAL)	5. TELEPHO (312)	ONE NUMBER FOR AGENCY  821-3028	TO CALL:	
6.	ADDRESS FOR CORRESPONDEN		ONE)		NUMBER FOR THIS APPL	ICATION: (C)	
	OWNER:	X OPERATOR	EMISSION SOURCE	RPM-0			
8.	THE UNDERSIGNED HEREBY M. FURTHER CERTIFIES THAT A	LL PREVIOUSLY SU	BMITTED INFORMATION REFE	RENCED IN THIS	S APPLICATION REMAINS	TRUE_ CORRE	
	BY AFFIXING HIS SIGNATUR		THER CERTIFIES THAT HE IS	AUTHORIZED T	O EXECUTE THIS APPLICATION	FON.	
	AUTHORIZED SIGNATURE(S):	(D)		(		10	2/1/27
	BY BBara	•	1/28/82	BY	W). LITH	イン	- 0/// -
	SIGNATURE	· · · · · · · · · · · · · · · · · · ·	DATE	े डार	GNATURE		DATE
	TYPEO OR PRINTED WAME	OF STENED	· · ·	<del>⊤</del> ⊽	A. D. PED OR PRINTED NAME OF		
	Mgr. Chicago		ufacturing				1 0
1	TITLE OF SIGNER			TI	TLE OF SIGNER Corpo	and Gen	eral Counsel and
(A)	THIS FORM IS TO PROVIDE ONLY BE USED TO REQUEST			T THE EQUIPME	NT TO BE CONSTRUCTED (	R OPERATED.	. THIS FORM MAY
(B)	CLEARLY IDENTIFY THE GEN PERMIT WHICH MAY BE ISSU	ERIC NAME OF THE ED PURSUANT TO T	E EQUIPMENT TO BE CONSTRU THIS APPLICATION. THIS F	CTED OR OPERA ORM MUST BE A	TED. SUCH IDENTIFICAT CCOMPANIED BY THE APPL	ION WILL AF	PPEAR ON THE ENDA.
(c)	PROVIDE A NUMBER IN ITEM NUMBER WILL BE REFERENCE NOT EXCEED TEN (10) CHAR	D IN ALL CORRESP	YOU WOULD LIKE THE AGENCY PONDENCE, RELATIVE TO THI	TO USE FOR I S APPLICATION	DENTIFICATION OF YOUR	EQUIPMENT. OUR IDENTII	YOUR IDENTIFICATION FICATION NUMBER MUST
(D)	THIS APPLICATION MUST BE "ALL APPLICATIONS AND SU CONTROL EQUIPMENT, OR TH	PPLEMENIS THEREI	IO SHALL BE SIGNED BY THE	OWNER AND OP	FRATOR OF THE EMISSION	ו בשומרב עם	ATR POLITION
	IF THE OWNER OR OPERATOR OF THE CORPORATION SOA OPERATION OF THE EQUIPMENT	ND OF DIRECTORS	AUTHORIZING THE PERSONS	HAVE ON FILE SIGNING THIS	WITH THE AGENCY A CEP APPLICATION TO CAUSE (	TIFIED COPY	Y OF A RESOLUTION E CONSTRUCTION OR

9.	A CONSTRUCTION PE	RUPLICATE.	ISTRUCTION IN COOK COUN	TY OUTSIDE OF THE CORPORATE E SUBMITTED IN <u>TRIPLICATE</u> .		BE		
10.	ESTABLISHMENTS.	INCES TO THE NEAREST REST IF SUCH A PLOT PLAN AND	DENCES, LODGINGS, NURS MAP HAS ALREADY REEN S	S TO THE NEAREST BOUNDARY OF THE NESS OF THE ASSOUNDARY OF THE ASS	LS AND COMMERCIAL AND MA			
11.	EQUIPMENT, AND SH	PLILALIUN. IN DIALHAM	OW RATES FOR (1) ALL P	EMISSION SOURCES AND ALL A OR EACH EMISSION SOURCE AND ROCESSING EQUIPMENT, (2) AL SHEETS:	) EACU TTCM OF AID DOLLAT	TON CONTROL		
12.	SHALL COMPLETE AN	D SUBMIT THE APPLICABLE	PERMIT APPLICATION FOR	EQUIPMENT IDENTIFIED ON TH S. THE FLOW DIAGRAM SHALL IT IS EXHAUSTED. IF IT IS	INDICATE THROUGH WHICH	STACK OR VENT		
13.	IF THIS IS AN APP OR CONSTRUCTION P	LICATION FOR AN OPERATIN ERMITS. HE SHALL COMPLE	G PERMIT, AND THE APPLIC TE FORM APC-210, ENTI	CANT IS INCORPORATING BY REILED "DATA AND INFORMATION	FERENCE PREVIOUSLY GRANT INCORPORATION BY REFE	ED INSTALLATION RENCE."		
14.	IF THIS IS AN APPLICATION FOR AN OPERATING PERMIT, AND THE STARTUP OF ANY EMISSION SOURCE DESCRIBED BY THIS APPLICATION PRODUCES AN AIR CONTAMINANT IN EXCESS OF APPLICABLE STANDARDS, THE APPLICANT MAY REQUEST PERMISSION TO EXCEED SUCH STANDARDS BY COMPLETING FORM APC-203, ENTITLED "OPERATION DURING STARTUP."							
15.	DURING MALFUNCTIO	LICATION FOR AN OPERATIN NS OR BREAKDOWNS PURSUAN PC-204, ENTITLED "OPERAT	IT TO PCB REGS CHAPTE!	ICANT IS APPLYING FOR PERMI R 2, RULE 105, THE APPLICAN AND BREAKDOWN."	SSION TO OPERATE AN EMIS T MAY REQUEST SUCH PERMI	SION SOURCE SSION BY		
16.	IF THIS IS AN APPLICABLE R	LICATION FOR AN OPERATIN	G PERMIT AND ALL OR ANY T SHALL COMPLETE FORM A	PART OF THE PROCESS MUST ( PC-202, ENTITLED "COMPLIANCE	BE CONTROLLED OR MODIFIE CE PROGRAM & PROJECT COM	O TO COMPLY PLETION SCHEDULE."		
17.	IF THIS IS AN APPI PLAN? YES	ICATION FOR AN OPERATIN	G PERMIT, DOES THE OPER Episode Actio	ATION COVERED BY THIS APPL n Plan on File	ICATION REQUIRE AN EPISO	DE ACTION		
18.	TO SECTION 49(c)	SOURCE COVERED BY THIS TROL OF AIR POLLUTION,"  OF THE ENVIRONMENTAL PROPORTION	APPLICATION, AS OF APRI ADOPTED BY THE FORMER A	L 14, 1972, IN COMPLIANCE NATURE POLLUTION CONTROL BOARD YES NO	AITH THE "RULES AND REGU AND CONTINUED EFFECTIVE	ATIONS PURSUANT		
19.	IF THIS IS AN APPE POLLUTION CONTROL IF "YES," CITE PCE HAD THE APPLICANT WITH THE APPLICABL POLLUTION CONTROL IF "NO," EXPLAIN 1	ICATION FOR AN OPERATING BOARD ON OR BEFORE JUNE ON OR BEFORE APRIL 14, E LIMITATIONS OF THE "REBOARD AND CONTINUED EFFI	DATE O  1972, COMMENCED CONSTRU  JLES AND REGULATIONS GO  ECTIVE PURSUANT TO SECT	TION THE SUBJECT OF A VARIA YES NO  F BOARD ORDER:  CTION OF EQUIPMENT OR MODIF VERNING THE CONTROL OF AIR ION 49(c) OF THE ENVIRONMEN  D. Not applicable	FICATIONS SUFFICIENT TO A	ACHIEVE COMPLIANCE		
?0.	PARTICULATE MATTER ON THE PLANT OR PR	R. SULFUR DIOXIDE. CARBO	N MONOXIDE, OXIDES OF N SHALL INCLUDE ALL EMISS	SHALL SUBMIT AN ESTIMATE O ITROGEN, AND ORGANIC MATERI ION SOURCES LOCATED ON THE	AL EMITTED FROM ALL SOUR	CES LOCATED		
	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS	MATERIAL	MAXIMUM ONE-HOUR AMOUNTS		
PARTIC	CULATE	33.8	SULFUR DIOXIDE		NITROGEN OXIDES	90 <b>.</b> 8 ⊾		
DRGAN MATER		303.3	CARBON MONOXIDE	9.6				
21.	WHAT IS THE SIZE	(IN ACRES) OF APPLICANT'S	S PREMISES?	1				
22.	LIST AND IDENTIFY AND STATE THE COTA		O OTHER INFORMATION SUB IS APPLICATION.	MITTED AS PART OF THIS APPL	ICATION. PLEASE NUMBER	EVERY PAGE		





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			FOR AGENCY USE ONLY
	DATA AND INFORMATION		
	DATA AND THE OWNERTOR		- 11 12 - 13 - 14 - 14 - 14 - 14 - 14 - 14 - 14
	INCORPORATION BY REFERENCE		
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			<u> </u>
	•		
١.	NAME OF OWNER:	2. NAME C	F CORPORATE DIVISION OR PLANT (1F DIFFERENT FROM OWNER):
	Sherwin-Williams Company STREET ADDRESS OF EMISSION SOURCE:		
3.	11541 S. Champlain Ave.	1	of emission source: hicago
5.	IDENTIFICATION NUMBER:		inteago
_	_03_1_6_00AHO_		
6a .	APPLICATION NUMBER:	b. Thent	FICATION ON FLOW DIAGRAM:
	0 210 0425	IDERII	- TONITON ON FEUN DIAGNAM:
с.	CONSTRUCTION OPERATION Resin Plant	·	
a.	DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, COR	RECT, CURREN	T & COMPLETE? .⊠ YES □ NO
е.	IF "NO," SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & I	NFORMATION W	HICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.
•	•		
7.	APPLICATION NUMBER:	h thenta	FICATION ON FLOW DIAGRAM:
,		D. IDENII	FICATION ON FLOW DIAGRAM:
c.	CONSTRUCTION OPERATION OF		
		DECT CURREN	T. B. COURT TTC2
u.	DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, COR	KECI, WKKEN	YES NO
e.	IF "NO, "SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & II	NFORMATION W	HICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.
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8a.	APPLICATION NUMBER:	b. IDENTI	FICATION ON FLOW DIAGRAM:
٥.	CONSTRUCTION OPERATION		
	0F		
٥.	DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, COR	RECT, CURREN	1 & COMPLETE? - YES NO
e.	IF "NO." SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & IN	NFORMATION W	HICH IS NO LONGER TRUE CORRECT. CURRENT AND COMPLETE
			the contract of the contract o
	APPLICATION NUMBER:	L	
92.	AFFEICALIUM NUMBER:	D. IDENTII	FICATION ON FLOW DIAGRAM:
c.	CONSTRUCTION OPERATION	L	
	OF		
d.	DOES THE DATA & INFORMATION PREVIOUSLY SUBMITTED REMAIN TRUE, COR	RECT, CURREN	T & COMPLETE? YES NO
e.	IF "NO, " SUBMIT THE APPLICABLE FORMS OR CLEARLY STATE THE DATA & II	NFORMATION W	HICH IS NO LONGER TRUE, CORRECT, CURRENT AND COMPLETE.
			•



RESIN PLANT MODIFICATION

DATA AND INFORMATION

SOLVENT PROCESSING - HIGH TEMPERATURE

PROCESS EMISSION SOURCE(A)

ZONE TANK REACTOR #4 - ITEM G

FOR AGENCY USE ONLY

1. NAME OF PLANT OWNER: The Sherwin-Williams Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
11541 S. Champlain Avenue	Chicago, Illinois 60628

<u> </u>	GENERAL IN	FORMATION
5.	NAME OF PROCESS:  Varnish-Resin Plant	6. NAME OF EMISSION SOURCE EQUIPMENT: Zone Tank Reactor #4
7.	EMISSION SOURCE EQUIPMENT MANUFACTURER:  D. Well Fabricating & Eng. Company	8. MODEL NUMBER: 9. SERIAL NUMBER:  Custom
10.	FLOW DIAGRAM DESIGNATIONS OF EMISSION SOURCES DESCRIBED ON THIS FAPPLICATIONS," FORM APC-201): Item G - Solvent Pro	cessing
11.	IN OTHER ADDITIONS ALSO IDENTIFY THOSE ADDITIONS).	t covered by this form (if such sources are covered by forms contained incorporation by reference
12.	AVERAGE OPERATION TIME OF EMISSION SOURCE:  24 HRS/DAY 5 DAYS/WK 25 WKS/YR	13. PERCENT OF ANNUAL THROUGHPUT:  DEC/FEB 12½ * MAR/MAY 12½ * JUN/AUG 12½ * SEP/NOV12½ *

	Solvent	Processing	RAW MATERIA	RAW MATERIAL INFORMATION ,			
14.	. N	AMES OF RAW MATERIALS(B)	Wt. %	MAXIMUM RATE PER IDENTICAL SOUPCE		AVERAGE RATE PER IDENTICAL SOURCE	
a.	0ils		54%	1620	LB/HR		LB/HR
b.	Polyols		14%	420	LB/HR		LB/HR
с.	Acids		27%	810	LB/HR		LB/HR
d.	Solvents		5% .	150	LB/HR		LB/HR
e.	•			-	LB/HR		LB/HR
f.					LB/HR		LB/HR

<sup>(</sup>A) THIS DATA AND INFORMATION FORM IS TO BE COMPLETED FOR ANY STATIONARY EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS ANY FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. FOR SUCH AN EMISSION SOURCE, COMPLETE "DATA AND INFORMATION -- FUEL COMBUSTION EMISSION SOURCE," FORM APC-240. AN INCINERATOR IS A COMBUSTION APPARATUS IN WHICH REFUSE IS BURNED. FOR SUCH AN EMISSION SOURCE, COMPLETE "DATA AND INFORMATION -- INCINERATOR," FORM APC-250.

<sup>(</sup>B) COMPOSITIONS OF RAW MATERIALS MUST BE DETAILED TO THE EXTENT NECESSARY TO DETERMINE THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS.

# ITEM G - SOLVENT PROCESSING - HIGH TEMPERATURE

PRODUCT INFORMATION							
15.	NAMES OF PRODUCTS	MAXIMUM RATE PER IDENTICAL SOURCE	AVERAGE RATE PER IDENTICAL SOURCE				
à.	Alkyd Resin Varnish	3000 LB/HR	1230 LB/HR				
b.		LB/HR	LB/HR				
c.		LB/HR .	LS/HR				
d.		LB/HR	LE/HR				

	WASTE MATERIAL INFORMATION						
16.	NAMES OF WASTE MATERIALS	MAXIMUM RATE PER IDENTICAL SOURCE	=	AVERAGE RATE PER IDENTICAL SOURCE			
a.	Water	1920	LB/HR	960	LB/HR		
b. 	Entrained Vegetable Oils	16	LB/HR	8	LB/HR		
c.	Anhydrides	32	LB/HR	16	FB/HS		
d.			LB/HR		LB/HR		

# TO ITEM B CONDENSER

	MAXIMUM EMISSIONS FROM EACH IDENTICAL SOURCE*						
	CONTAMINANT		CONCENTRATION O	R EMISSION RAT	TE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
17.	PARTICULATE MATTER	a.	GR/SCF	b.	LB/HR	с.	
18.	CARBON MONOXIDE	ā.	PPM (VOL)	b.	LB/HR	c.	
19.	NITROGEN OXIDES	a.	PPM (VOL)	b:	LB/HR	с.	
20.	ORGANIC MATERIAL	a.	PPM (VOL)	b	LB/HR	c.,	
21.	SUL FUR DIOXIDE	a.	PPM (VOL)	b.	LB/HR	с.	
22.	OTHER (SPECIFY)	a.	PPM (VOL)	b.	LB/HR	с.	

EXHAUST DATA*					
23.	FLOW DIAGRAM DESIGNATIONS OF (REFER TO "GENERAL INSTRUCTION CATIONS," FOR!" APC-201):	EXILS DESCRIBED IN THIS SECTION NS FOR COMPLETION OF PERMIT APPLI-	24.	GAS FLOW RATE THROUGH EACH EXIT: ACFM	25. EXII GAS TEMPERATURE:
26.	EXIT DIAMETER:	27. EXIT HEIGHT ABOVE GRADE:	28.	MAXIMUM HEIGHT OF NEARBY BUILDINGS: FT	29. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: FT

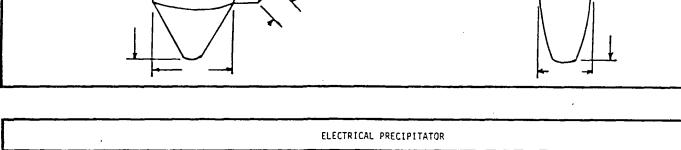
\*NOTE: COMPLETE THESE SECTIONS ONLY IF EMISSIONS ARE EXHAUSTED WITHOUT CONTROL EQUIPMENT.



RESIN PLANT MODIFICATION	FOR AGENCY USE ONLY
SOLVENT PROCESSING - HIGH TEMPERATURE  AIR POLLUTION CONTROL EQUIPMENT  ITEM B - CONDENSER	
ITEM K - VENT	
NAME OF OWNER:     The Sherwin-Williams Company     STREET ADDRESS OF EMISSION SOURCE:	NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):  4. CITY OF EMISSION SOURCE:
11541 S. Champlain Avenue	Chicago, Illinois 60628
ADSORPTIO	ON SYSTEM
<ol> <li>FLOW DIAGRAM DESIGNATIONS OF ADSORPTION SYSTEMS DESCRIBED IN THIS APPLICATIONS," FORM APC-201):</li> </ol>	SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. ADSORBANT: 5. NUMBER OF BEDS PER	SYSTEM: 6. ADSORBANT WEIGHT PER BED:  LB
7. METHOD OF REGENERATION:  REPLACEMENT STEAM OTHER (	; ; ; ; ; ;
8. TIME ON LINE BEFORE REGENERATION:MIN/BED	9. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):
AFTE	PBURNER
<ol> <li>FLOW DIAGRAM DESIGNATIONS OF AFTERBURNERS DESCRIBED IN THIS SECTION APPLICATIONS," FORM APC-201):</li> </ol>	ON (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT .
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. FUEL: GAS 01L ( : SULFUR)	5. BTU/HR BURNERS PER AFTERBURNER @EACH
6. INLET GAS TEMPERATURE:	7. OPERATING TEMPERATURE OF COMBUSTION CHAMBER:
8. COMBUSTION CHAMBER DIMENSIONS:  LENGTH IN; CROSS SEC	TIONIN XIN; ORIN DIA
9. CATALYST USED? YES NO	10. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE): PARTICULATE

100- 84-1 ------

ITEM B - CONDENSER UE-2				
COND	ENSER			
1. FLOW DIAGRAM DESIGNATIONS OF CONDENSERS DESCRIBED IN THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS," FORM APC-201): ITEM B				
PROCESS ENGINEERING & MACHINE	3. MODEL NAME AND NUMBER: #3448			
4. TYPE OF COOLANT AND COGLANT FLOW PER CONDENSER:    X   WATER ( GPM)	OTHER (TYPEFLOW RATE)			
5. COOLANT TEMPERATURES: INLET 55 °F OUTLET 75 °F	6. GAS TEMPERATURES: $\frac{220}{370}$ °F OUTLET $\frac{100}{100}$ °F			
7. HEAT EXCHANGE AREA PER COMDENSER: 1,000 FT <sup>2</sup>	8. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE): No Flow (No non-condensibles other than			
	that contained in equipment on start-up)			
сус	LONE			
1. FLOW DIAGRAM DESIGNATIONS OF CYCLONES OR MULTIPLE CYCLONES DESCRIBE OF PERMIT APPLICATIONS," FORM APC-201):	ED IN THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION			
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:			
4. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:	5. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):			
6. DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A DRAWING WITH EQUIVALENT INFORMATION:				



	. ELECTRICAL PRECIPITATOR						
1.	FLOW DIAGRAM DESIGNATIONS OF ELECTRICAL PRECIPITATORS DESCRIBED IN OF PERMIT APPLICATIONS," FORM APC-201):	THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION					
2.	MANUFACTURER:	3. MODEL NAME AND NUMBER:					
4.	COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT2	5. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN RESULTS):					

	FILTER
1.	FLOW DIAGRAM DESIGNATIONS OF FILTERS DESCRIBED IN THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS." FORM APC-201):
2.	MANUFACTURER: 3. MODEL NAME AND NUMBER:
4.	FILTERING AREA PER CONTPOL DEVICE:  5. FILTERING MATERIAL:  FT <sup>2</sup>
6.	CLEAMING: SHAKER REVERSE AIR PULSE AIR PULSE JET OTHER(SPECIFY
7.	GAS COOLING:  BLEED-IN AIR(SCFM) WATER SPRAY (GPM) DUCT(LENGTHFT: DI#TN DTHER(SPECIFY)
3.	THET GAS:  TEMPERATURE OF: DEM FOINT OF DINTEGE CATTOCH TEST DESIGNATION ESTIMATED:

FOR AGENCY USE ONLY	10.			
•	SCRUBBER			
1. FLOW DIAGRAM DESIGNATIONS OF SCRUBBEPS DESCRIBED IN THIS SECTION APC-201):	TION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS,"			
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:			
4. SCRUBBER TYPE:				
HIGH ENERGY (GAS STREAM PRESSURE DROP IN H2O)				
PACKED (PACKING TYPE; PACKING SIZE	IN; PACKED HEIGHTIN)			
SPRAY (NUMBER OF NOZZLES ; NOZZLE PRESSURE	PSIG)			
OTHER (SPECIFY ATTACH DESCRIPTION	AND SKETCH WITH DIMENSIONED DETAILS)			
5. SCRUBBER GEOMETRY:  LENGTH IN DIRECTION OF GAS FLOWIN; CROSS-SECTION	IN XIN ORIN DIA; CCOSS FLOW COUNTER FLOW			
6. LIQUID FLOW RATE INTO SCRUBBER: GPM	7. CHEMICAL COMPOSITION OF SCRUBBANT:			
8. INLET GAS TEMPERATURE:°F	9. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE): PARTICULATE # GASEOUS #			
ITEM K - VENT OTHER TYPES	OF CONTROL EQUIPMENT			
<ol> <li>FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT DESCRIBED IN THAT APPLICATIONS," FORM APC-201): TTFM K</li> </ol>	IIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT			
2. GENERIC NAME OF CONTROL EQUIPMENT: 3. MANUFACTURER: Vent	4. MODEL NAME AND NUMBER:			
5. ATTACH DESCRIPTION AND SKETCH OF CONTROL EQUIPMENT WITH DIMENSIONED DETAILS AND FLOW RATES.	6. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):  PARTICULATE			
	CONTROL OCCURS IN ITEM B CONDENSER			
VENT - UE-1A MAXIMUM EMISSION	S FROM EACH IDENTICAL EXIT			
CONTAMINANT CONCENTRATION OR EMISSION RATE	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE			
MITTED I	OGBTU C. LB/HR When manufacturing via solvent method,			
MOND X I DE	O <sup>6</sup> Biu c. LB/HR the condenser is in use and is operated			
DAIDES	OGBTU c. LB/HR at atmospheric pressure - See Calculation			
MATERIA) 14 1	0 <sup>6</sup> ВТИ с . LB/HR			
niaving   Proj	06BTU c. LB/HR			
/cnrcicv\	0 <sup>6</sup> ВТU с. LB/HR			
:				
VENT - UE-1A	YHAUST DATA			
<ol> <li>Figs. 1:45×20 SESTIGNATIONS OF EXITS DESCRIBED IN THIS SECTIONS TO "GUNDERLY INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATION FORM APC-101): UE-1A</li> </ol>	PEFEP 2. GAS FLOW RATE THROUGH EACH 3. EXIT GAS TEMPERATURE:  S," EXIT: 0-2 ACFM 90 °F			
2" r= EXIT DIAMETER: 2" r= EXIT HEIGHT ABOVE GPADE:	6. MAXIMUM HEIGHT OF NEARBY 7. EXIT DISTANCE FPOM NEAREST PLANT BOUNDARY: 150 FT			

#### SOLVENT PROCESSING - HIGH TEMPERATURE

#### EMISSIONS FROM UE-1A

UE-1A - Processing proceeds for an average of 18 hours (12 hr. min. - 30 hr. max.). A solvent (typically xylene) is used to drive the polymerization to completion by stripping and condensing the water of reaction. The water is separated from the solvent and the solvent is returned to the kettle. This all proceeds under atmospheric pressure. Minor amounts of inert gases (non-condensables) evolve from the batch via UE-1A at about 90°F after passing thru the vent condenser (Item B).

Flow 0-2 cfm 0 atmospheric pressure, inert gases saturated with xylene 0  $90^{\circ}$ F, xylene vapor pressure 0  $90^{\circ}$ F = 13 mm Hg.

# Max. per hour

2 SCFM 
$$(60 \text{ min.})$$
  $(13 \text{ mm})$   $(1 \text{ lb.mole})$   $(106 \text{ lb.})$  = 0.56 lb/hr.  $(760 \text{mm})$   $(387 \text{ cu.ft})$   $(1 \text{ mole})$  = 0.56 lb/hr.

After all the water of reaction is removed and the batch is completed it is dropped to the thinning tank prior to filtering.



RESIN PLANT MODIFICATION
DATA AND INFORMATION

FOR AGENCY USE ONLY

SOLVENT PROCESS - LOW TEMPERATURE

PROCESS EMISSION SOURCE(A)

ZONE TANK REACTOR #4 - ITEM G

1. NAME OF PLANT OWNER: The Sherwin-Williams Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 11541 S. Champlain Avenue	4. CITY OF EMISSION SOURCE: Chicago, Illinois 60628

GENERAL	INFORMATION	
5. NAME OF PROCESS: Varnish Resin Plant	6. NAME OF EMISSION SOURCE Zone Tank Reac	
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: D. Well Fabricating & Engineering	8. MODEL NUMBER: Custom	9. SERIAL NUMBER:
O. FLOW DIAGRAM DESIGNATIONS OF EMISSION SOURCES DESCRIBED ON THIS APPLICATIONS, FORM APC-201): ITEM G - SOLVENT PROC	S FORM (REFER TO "GENERAL INSTRUCT CESSING - LOW TEMPERATU	IONS FOR COMPLETION OF PERMIT RE
1. CLEARLY IDENTIFY ANY SIMILAR SOURCES AT THE PLANT OR PREMISES IN OTHER APPLICATIONS, ALSO IDENTIFY THOSE APPLICATIONS):	NOT COVERED BY THIS FORM (IF SUCH See incorporation by re	

RAW MATERIAL INFORMATION					
14.	NAMES OF RAW MATERIALS(B)		MAXIMUM RATE PER IDENTICAL SOUPCE	AVERAGE RATE PER IDENTICAL SOURCE	•.
a.	Monomers .	23%	690 LB/HR		LB/HR
b.	Intermediate Alkyds	27%	810 <sub>LB/HR</sub>		LB/HR
c.	Solvents	50%	1500 LB/HR		LB/HR
d.			LB/HR		LB/HR
e.	•		LB/HR		LB/HR
f.	·		LB/HR		LB/HS

- (A) THIS DATA AND INFORMATION FORM IS TO BE COMPLETED FOR ANY STATIONARY EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS ANY FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. FOR SUCH AN EMISSION SOURCE, COMPLETE "DATA AND INFORMATION --FUEL COMBUSTION EMISSION SOURCE," FORM AFC-240. AN INCINERATOR IS A COMBUSTION APPARATUS IN WHICH REFUSE IS BURNED. FOR SUCH AN EMISSION SOURCE, COMPLETE "DATA AND INFORMATION -- INCINERATOR," FORM APC-250.
- (B) COMPOSITIONS OF RAW MATERIALS MUST BE DETAILED TO THE EXTENT NECESSARY TO DETERMINE THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS.

	ZONE TANK REACTOR #4	PRODUCT IN	FORMATION ITEM G - S	OLVENT	PROCESS - LOW TEMP.	
15,	NAMES OF PRODUCTS .		MAXIMUM RATE PER IDENTICAL SOURCE		AVERAGE RATE FER IDENTICAL SOURCE	
	Monomer Modified Alkyd Resin		. 3000	LB/HR	1230 -	B/HR
· 				LB/HR		B/HP
	· · · · · · · · · · · · · · · · · · ·			LB/HR	ι	E/HR
				LB/HR	 L	E/HR

_	WASTE MATERIAL INFORMATION				
16.	NAMES OF WASTE MATERIALS	MAXIMUM RATE PER IDENTICAL SOURCE	AVERAGE RATE PER IDENTICAL SOURCE		
· .	None	LB/HR	LB/HR		
). 		LB/HR	LB/HR		
: . 		LB/HR	LB/HR		
l. 		LB/HR	LE/HR		

# TO ITEM C - CONDENSER

i	MAXIMUM EMISSIONS FROM EACH IDENTICAL SOURCE*											
	CONTAMINANT		CONCENTRATION C	OR EMISSION RATE	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE							
7.	PARTICULATE MATTER	a.	GR/SCF	b. LB/HR	c.							
8.	CARBON MONOXIDE	a.	PPM (VCL)	b. LB/HR	<b>c.</b>							
9.	NITROGEN OXIDES	a.	PPM (VOL)	b: Lb/HR	c.							
D.	ORGANIC MATERIAL	a.	PPM (VOL)	b. LB/HR	c.							
1.	SULFUR DIOXIDE	a.	PPM (VOL)	b. LB/HR	c.							
2.	OTHER (SPECIFY)	a.	PPM (VOL)	b. LB/HR	c.							

			EXHAUST	DATA				
-	FLOW DIAGRAM DESIGNATIONS OF (REFER TO "GENERAL INSTRUCTIO CATIONS," FOR!" APC-201):	EXITS DESCRIBED IN MIS FOR COMPLETION O	THIS SECTION OF PERMIT APPLI-	24.	GAS FLOW RATE THROUGH EXIT:	EACH ACFM	25. EXIT GAS TEMPERATURE:	°۲
•	EXIT DIAMETER:	27. EXIT HEIGHT	ABOVE GRADE:	28.	MAXIMUM HEIGHT OF NEA BUILDINGS:	RBY FT	29. EXIT DISTANCE FROM NEARES PLANT BOUNDARY:	រា ក

DIE: COMPLETE THESE SECTIONS ONLY IF EMISSIONS ARE EXHAUSTED WITHOUT CONTROL EQUIPMENT.



	<u> </u>				
	RESIN PLANT MODIFICATION DATA AND INFORMATION	<b>.</b> .		FOR AGENCY USE ONLY	
	SOLVENT PROCESSING - LOW TEMPERATURE			•	٠.
	AIR POLLUTION CONTROL EQUIPMENT  ITEM C - CONDENSER		}		•
	TIEN O CONSTRUENT		<u> </u>		
	ITEM K - VENT				
	The Sherwin-Williams Company			DIVISION OR PLANT (IF DIFFEREN	NT FROM OWNER):
3.	street Aduress of Emission Source: 11541 S. Champlain Avenue	4. CITY C	of emission hicago,	SOUPCE: Illinois 60628	
	. ADSORPTIO	N SYSTEM			
1.	FLOW DIAGRAM DESIGNATIONS OF ADSORPTION SYSTEMS DESCRIBED IN THIS APPLICATIONS," FORM APC-201):	SECTION (RE	FER TO "GENE	RAL INSTRUCTIONS FOR COMPLETION	OF PERMIT
2.	MANUFACTURER:	3. MODEL	NAME AND NU	MBER:	
4.	ADSORBANT: 5. NUMBER OF BEDS PER	SYSTEM:		6. ADSORBANT WEIGHT PER BED:	LB
7.	METHOD OF REGENERATION:  REPLACEMENT STEAM OTHER (S	PFCIFY		1	
8.	TIME ON LINE BEFORE REGENERATION:		IENCY OF CON	TROL (ATTACH TEST REPORT OR EXP	PLAIN ESTIMATE):
	MIN/BED				
	AFTER	BURNER			`
1.	FLOW DIAGRAM DESIGNATIONS OF AFTERBURNERS DESCRIBED IN THIS SECTION APPLICATIONS," FORM APC-201):	N (REFER TO	"GENERAL IN	STRUCTIONS FOR COMPLETION OF PE	RMIT .
2.	MANUFACTURER:	3. MODEL	NAME AND NU	MBER:	
4.	FUEL: GAS 01L ( SULFUR)	5. BURNE	RS PER AFTER	BURNER @	BTU/HR EACH
6.	INLET GAS TEMPERATURE:	7. OPER	ITING TEMPERA	TURE OF COMBUSTION CHAMBER:	°F
з.	COMBUSTION CHAMBER DIMENSIONS:			•••	**
				IN; OR	IN DIA
9.	CATALYST USED? YES NO			ITROL (ATTACH TEST REPORT OR EXF	PLAIN ESTIMATE):

450-260

	ITEM C - CONDENSER UE-3		
	CONDEN	ISE R	
1.	FLOW DIAGRAM DESIGNATIONS OF CONDENSERS DESCRIBED IN THIS SECTION (RAPPLICATIONS," FORM APC-201): ITEM C	EFER	TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT
2.	MANUFACTURER: Processing Engineering & Machine	3.	MODEL NAME AND NUMBER: 3018
	TYPE OF COOLANT AND COOLANT FLOW PER CONDENSER:    X   WATER ( GPM)		THER (TYPE
	INLET 55 °F OUTLET 75 °F	6.	GAS TEMPERATURES: 220/260 °F OUTLET 100 °F
7.	HEAT EXCHANGE AREA PER CONDENSER: 500 FT2	8.	EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE): No Flow (No non-condensibles other than
			that contained in equipment on start-up)
	CYCLO	NE	
1.	FLOW DIAGRAM DESIGNATIONS OF CYCLONES OR MULTIPLE CYCLONES DESCRIBED OF PERMIT APPLICATIONS," FORM APC-201):	) IN	THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION
2.	MANUFACTURER:	3.	MODEL NAME AND NUMBER:
4.	NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:	5.	EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):
6.	DIMENSION THE APPROPRIATE SKETCH (IN INCHES) OR PROVIDE A DRAWING WI	TH E	QUIVALENT INFORMATION:
		FCIP	TATOR .
1.	FLOW DIAGRAM DESIGNATIONS OF ELECTRICAL PRECIPITATORS DESCRIBED IN T		
2.	OF PERMIT APPLICATIONS," FORM APC-201):  MANUFACTURER:	3.	MODEL NAME AND NUMBER:
4.	COLLECTING ELECTRODE AREA PER CONTROL DEVICE:	5.	EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN RESULTS):
	FT <sup>2</sup>		
	·		<del></del>
1.			"GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS."
2.	TORM APC-201):	_	MODEL NAME AND NUMBER:
1	FILTERING AREA PER CONTROL DEVICE:	5.	FILTERING MATERIAL:
<u> </u>	CLEANING:		TELEVIAN CALENTAL.
		] or	SER(SPECIFY;
	BLEED-IN AIR(SCFM)	_=	OUCT(LENGTHFT: 514IN)
<b>3.</b>	TEMPERATURE FF; DEW POINT OF	9. ——	EFFICIENCY OF CONTROL CATTACH TEST REPORT OR EXPLAIN ESTEMATES:

_		·	<del> </del>			<del></del>				
L			· ·			UBBER				
1.	FLOW DIAGRAM DESIG FORM APC-201):	SHATIONS OF SC	MUBBERS DESC	RIBED IN T	HIS SECTION	(REFE	R TO "GENERAL I	INSTRUCTIONS F	OR CO	OMPLETION OF PERMIT APPLICATIONS,
2.	MARRIFACTURER:					3.	MODEL NAME AND	NUMBER:		
4.	SCRUBBER TYPE:			<del></del>						<del></del>
	HIGH ENERGY (G	GAS STREAM PRE	SSURE DROP _				٠.			
	PACKED (PACKIN	IG TYPE	;	IN; PACKED H	HE I GHT		IN)			
	SPRAY (NUMBER	OF NOZZLES	;	NOZZLE PRES	SSURE		PSIG)			
	OTHER (SPECIFY			ATTACH DESC	CRIPTION AND	SKET	CH WITH DIMENSI	ONED DETAILS)		••
5.	SCRUBBER GEOMETRY: LENGTH IN DIREC		LOW1	N; CROSS-S	SECTION	IN	I XIN C	DR	JA;	CROSS FLOW COUNTER FLOW
6.	LIQUID FLOW RATE I			<del></del>	GPM		CHEMICAL COMPO			
8.	INLET GAS TEMPERAT	URE:			•F	9.	EFFICIENCY OF PARTICULATE			ST REPORT OR EXPLAIN ESTIMATE): GASEOUS
		<del></del>				٠	<u></u>		~	
	ITEM K -	VENT		ОТН	R TYPES OF	CONTR	OL EQUIPMENT			
1.		NATION OF CON		NT DESCRIB	D IN THIS S	ECTIO	N (REFER TO "GE	NERAL INSTRUC	TIONS	FOR COMPLETION OF PERMIT
2.	GENERIC NAME OF CO		ITEM K	3. MANUF	ACTURER:		·	4. MODE	L NAM	E AND NUMBER:
5.	VENT ATTACH DESCRIPTION DIMENSIONED DETAIL			UIPMENT WIT	гн	6.	EFFICIENCY OF PARTICULATE	CONTROL (ATTA	CH TE	ST REPORT OR EXPLAIN ESTIMATE): GASEOUS 0 x
L				<del></del>	<del></del> -	<u>.l.,                                    </u>	Control	occurs in Condense		
	VENT_UE-1A	<del></del>	<del></del>	MUMIXAM	MISSIONS FR	OM EA	CH IDENTICAL EX			•
	CONTAMINANT		CENTRATION O	R EMISSION	RATE	1	METHOD USED	TO DETERMINE	CONC	ENTRATION OR EMISSION RATE
1.	PARTICULATE MATTER	à.	GR/SCF	b.	LB/10 <sup>6</sup> BT		When man	ufacturin		ia solvent method,
2.	CARBON MONOXI DE	a.	PPM (VOL)	b.	LB/106BT				-	-
3.	NITROGEN OXIDES	à.	PPM (VOL)	b.	LB/106BT	υc.				use and is operated
4.	ORGANIC MATERIAL V	a	PPM (VOL)	b.	LB/106BT	U c.	at atmos	pneric pr	ess	ure - See Calculation.
5.	SULFUR DIOXIDE	a.	PPM	0.56 j	LB/106BT	Uc.			<del></del> .	
6.	OTHER (SPECIFY)	à.	(VOL)	b.	LB/H	Uc.				
L		<u></u>	(VOL)		LB/H	K				
		<del></del>			•			<del></del>		
1.	VENT UE-1	SNATIONS OF EX	175 EESCP18E	SIN THIS	E YHAU E CT LON ( P.E.F.E		GAS FLOW RATE	THROUGH EACH		3. EXIT GAS TEMPERATURE:
٠.	TO MOINTRAL MOSTRU FORM ARTH-TOTAL ENIT DIAMETER	UE-1A	PERTION OF			6.	HAXIMUM HEIGH		CFM .	90 °F
]		2" r-	1 . EAI. **E	JOHE ABUKE	65 F7	1	BUILDINGS:	56	FT	PLANT BOUNDARY: 150 FT

#### SOLVENT PROCESSING - LOW TEMPERATURE

### EMISSIONS FROM UE-1A

UE-1A - Processing proceeds at atmospheric pressure for an average of 18 hours (16 hr. min. - 24 hr. max.).

Xylene is used to maintain a steady reflux throughout the polymerization. The condensed solvent is returned to the reactor. Minor amounts of inert gas (non-condensables) evolve from the batch via UE-1A at about 90°F after passing thru the vent condenser (ITEM C).

Flow 0-2 cfm at atmospheric pressure, inert gas saturated with xylene at  $90^{\circ}F$ . Xylene vapor pressure at  $90^{\circ}F$  is 13 mm Hg.

### Max. per hour

2 CFM  $\frac{(60 \text{ min.})}{(\text{hour})}$   $\frac{(13 \text{ mm})}{(760 \text{mm})}$   $\frac{(1 \text{ lb.mole})}{(387 \text{ cu.ft})}$   $\frac{(106 \text{ lb.})}{(1# \text{ mole})}$  = 0.56 lb/hr.

After the polymerization is completed, the batch is dropped to a prefilter tank prior to filtering.



						•		
	RESIN PLANT A	NOITION				FOR AGENCY USE ONLY		
	PROCESS	EMISSION S	SOURCE ADDENDUM			•		
		TAN	<b>(</b>					
	ITEM D - CON	ENSER R	ECEIVER -					
	·	· , <del>- · · · · · · · · · · · · · · · · · · </del>						
1.				2.	NAME OF CORPORATI	E DIVISION OR PLANT (IF DIFFERENT FROM OWNER):		
3.	STREET ADDRESS OF EMISSION		iams Company	Δ	CITY OF EMISSION			
			in Avenue	'.	Chicago, I			
			TANK INFO	RMATI	ON	· · · · · · · · · · · · · · · · · · ·		
5,	NAME OF TANK MANUFACTURER:			6.	DESIGNATION OF TA	ANK:		
		Custom	1		ITEM D			
7.	SERIAL NUMBER:			8. CAPACITY: 170 Gallons				
9.	TANK USE: Receive condensing	liquic	ls from Items B & C	10.	NUMBER OF SAME CA	APACITY TANKS STORING SAME MATERIAL:		
1.	TANK SHAPE:  HORIZONTAL		CYL INDRICAL	SPHE	RICAL	OTHER(SPECIFY)		
12.	TANK DIAMETER:	. 20	13. TANK HEIGHT:			14. TANK LENGTH:		
			FT		FT	FT		
15.	STATUS:	ING	ALTERATION	16:	TANK TYPE:  PRESSURE	FIXED ROOF FLOATING ROOF		
17.	SEAL: SINGL OTHER	E (SPECIFY)	DOUBLE	18.	AVERAGE DISTANCE	FROM TOP OF TANK SHELL TO LIQUID:		
19.	SHELL TYPE: WELDE		OTHER(SPECIFY)	20.	PAINT COLOR:			
	<u> </u>			<u> </u>	<del></del>			
		· <del></del>	VENT VALV	E DAT	A .			
	TYPE OF VENT	NUMBER OF VENTS				DISCHARGE VENTED TO		
	TYPE OF VENT	OF VENTS	PRESSURE SETTING			(ATMOSPHERE, FLARE, ETC.)		
21.	COMBINATION	a.	b. PSIG	c.				
22.	PRESSURE	a.	b. PSIG	c.				
23.	VACUUM	a	b. PSIG	с.				
24.	OPEN	a. 1	b. 0 PSIG	c.	To Item K B	reather Only		

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FOR AGENCY USE ONLY	÷
	MATERIAL TO BE STORED
25. MATERIAL: Xylene and Water	26. DENSITY: 27. VAPOR PRESSURE AT 70°F: 7mm PSTA

	RECEIVER		STORAGE C	ONDITIONS	
Źΰ.	STOSAGE TEMPERATURE: Indoors MINIMUM60_ °F M	AXIMUM	90 °F	29. TANS. TURG OVER PER YEAR:	DBLS/ GALS/
30.	MAXIMUM FILLING RATE:		GALS/DAY	31. AVEFAGE THROUGH PUT:	☐ BBLS/DAY ☐ GALS/DAY
32.	PRESSURE EQUALIZERS USED?	X NO		33. PERMANENT SUBMERGED LOADING PIPE USED?	NO NO
34.	VAPOR LOSS CONTROL DEVICE?  YES  X NO			ROL DEVICE IS USED. COMPLETE "DATA & INFORMATION AN" (FORM APC-260), AS PART OF THIS APPLICATION.	S POLLUTION



	RESIN PLANT	ודותת ב	n			- [	FOR MEETI DZE ONE!	1	
PROCESS EMISSION SOURCE ADDENDUM						l	•	į.	
								٠,.	
		TAN	K					Ī	
	(2) PREFILT	ER TANK	S - ITEM M "						
1.	NAME OF OWNER: The She	rwin-Wi	lliams Company	$\neg$	2.	NAME OF CORPORAT	E DIVISION OR PLANT (IF DIFFERENT FRO	M OWNER):	
٦.	STREET ADDRESS OF EMISSION		TT tuins company	$-\!\!+$		CITY OF EMISSION	SOUDCE		
			lain Avenue	ì	•		llinois 60628	l	
		· Orramp	Turn Ayende			cirreago, 1	1111013 00028		
	·								
			TANK	INFOR	ITAN	DN			
5.	NAME OF TANK MANUFACTURER:				6.	DESIGNATION OF T			
	Imperial Steel T	ank Comp	pany			Item M-1 a	nd M-2		
1.	SEKIAL NUMBEK:			ļ	8.	CAPACITY: 10,000 Gal	lon	Į	
9.	TANK USE:	_ <del></del>		-+	10. NUMBER OF SAME CAPACITY TANKS STORING SAME MATERIAL:				
	Prefilter	Tanks	<u>-</u>			(2)			
1.	TANK SHAPE:	<u>[X]</u>	CYLINDRICAL		SPHE	RICAL	OTHER(SPECIFY)		
12.	TANK DIAMETER:		13. TANK HEIGHT:				14. TANK LENGTH:		
	·		FT			<u> </u>	1	FT	
15.	STATUS: New Exist	ING	ALTERATION		16:	TANK TYPE:  PRESSURE	FIXED ROOF . FLOATING OTHER(SPECIFY)	ROOF	
17.	SEAL: SINGL		DOUBLE		18.	AVERAGE DISTANCE	FROM TOP OF TANK SHELL TO LIQUID:	2 57	
	SHELL TYPE:.	(SPECIFY)_	<del></del>		20	DATES COLOR.		3 FT.	
19.	RIVETED X WELDE	D 🗀	OTHER(SPECIFY)	_ }	20.	PAINT COLOR:	•	1	
	,								
		<del></del>	VENT	VALVE	DAT		<del></del>		
	<del></del>	NUMBER	T TEN				DISCURDES VENTED TO		
	TYPE OF VENT	OF VENTS	PRESSURE SETTING				DISCHARGE VENTED TO (ATMOSPHERE, FLARE, ETC.)		
21.	COMBINATION	a. 2	b. 5 1	PSIG	c.	Emergency R	elief to Relief Tank -		
22.	PRESSURE	a.	b. 1	PSIG	с.	<u></u>	51.51 55 No.1161 14III		
<b>23.</b>	VACUUH	a	b	PSIG	с.				
24.	OPEN	a. 2	b – I	PSIG	с.	To Condense	r L-1 and L-2		

_	_	
n	7	
_	-1	٠.

						21.
FOI	R ASSINCY USE DINLY	<del></del>	· ·			
	-	•				
			MATERIAL T	TO BE STORED		
۷٥.	Alkyds & Monomer	Modified	Alkyds	26. DENSITY: 7.5 - 8.8 LE/FT <sup>3</sup>	27. VAPOR PRESSUR 2.0 - 7.	
						· ••
			CTOPACE O			· <del>·</del>
			STORAGE (	CONDITIONS		
Zc.	STOPAGE TEMPERATURE: MINIMUM 180 °F	MAXIMUM	300 °F	29. TANE TURE OVER PER YEAR:	<u> </u>	D EELS/ D GALS/
30.	MAZIMUM FILLING RATE:	3000	☐ EBLS/DAY  ☑ GALS/DAY	31. AVEFASE THROUGHPUT:	1500	BELSTDAY  GALSTOAY
32.	PRESSURE EQUALIZERS USED?  YES	□ NO		33. PERMANENT SUBMERGED LOADING PI	PE USED? [X] YES	□ NO
34.	VAPOR LOSS CONTROL DEVICE?		IF VAPOR LOSS CON CONTROL EQUIPMENT	TROL DEVICE IS USED. COMPLETE "DATA 8." (FORM APC-260). AS PART OF THIS AP	INFORMATION A	AIR POLLUTION

X YES



	RESIN PLANT ADDITION DATA AND INFORMATION		FOR AGENCY USE ONLY			
	PREFILTER OPERATION					
	AIR POLLUTION CONTROL EQUIPMENT	•				
•	VENT CONDENSERS - ITEMS L-1 AND L-2					
			<u> </u>			
	NAME OF OWNER: The Sherwin-Williams Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):				
3.	STREET ADDRESS OF EMISSION SOURCE:		OF EMISSION SOURCE:			
	11541 S. Champlain Avenue	i ch	icago, Illinois 60628			
	ADSORPTIO	ON SYSTEM				
1.	FLOW DIAGRAM DESIGNATIONS OF ADSORPTION SYSTEMS DESCRIBED IN THIS APPLICATIONS," FORM APC-201):					
2.	MANUFACTURER:	3. MODEL	NAME AND NUMBER:			
4.	ADSORBANT: 5. NUMBER OF BEDS PER	SYSTEM:	6. 'ADSORBANT WEIGHT PER BED:			
			LB			
7.	METHOD OF REGENERATION:					
	REPLACEMENT STEAM STEAM OTHER (5					
8.	TIME ON LINE BEFORE REGENERATION:	9. EFFIC	IENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):			
	MIN/BED					
	· · · · · · · · · · · · · · · · · · ·	RBURNER				
1.	FLOW DIAGRAM DESIGNATIONS OF AFTERBURNERS DESCRIBED IN THIS SECTION APPLICATIONS." FORM APC-201):	ON (REFER TO	"GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT			
2.	MARUFACTURER:	3. MODEL	NAME AND NUMBER:			
4.	FUEL: GAS OIL ( SULFUR)	5. BURNE	RS PER AFTERBURNER @ BTU/HR EACH			
6.	INLET GAS TEMPERATURE:	7. OPERA	TING TEMPERATURE OF COMBUSTION CHAMBER:			
٦.	COMBUSTION CHAMBER DIMENSIONS:	<del>*</del>				
	LENGTH IN; CROSS SECT	ION	IN X IN: OR . IN DIA			

PAGE 1 OF 3

CATALYST USED?

TES

□ NO

VENT CONDENSER - ITEMS L-1 AND L-2	
CON	DENSER
1. FLOW DIAGRAM DESIGNATIONS OF CONDENSERS DESCRIBED IN THIS SECTION APPLICATIONS," FORM APC-201): Items L-1 and L-2	(REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. TYPE OF COOLANT AND COCLANT FLOW PER CONDENSER:  X WATER ( GPM) AIR ( SCFM)	OTHER (TYPEFLOW RATE).
5. COOLANT TEMPERATURES:  INLET 55 °F OUTLET 75 °F	6. GAS TEMPERATURES: 180/300 of OUTLET 100 of
7. HEAT EXCHANGE AREA PER CONDENSER:	8. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE): See Attached
	CLONE
<ol> <li>FLOW DIAGRAM DESIGNATIONS OF CYCLONES OR MULTIPLE CYCLONES DESCRIP OF PERMIT APPLICATIONS," FORM APC-201):</li> </ol>	BED IN THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. NUMBER OF CYCLONES IN EACH MULTIPLE CYCLONE:	5. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN ESTIMATE):
CLECTRICAL	PRECIONATOR
FLOW DIAGRAM DESIGNATIONS OF ELECTRICAL PRECIPITATORS DESCRIBED IN	PRECIPITATOR  N THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION
OF PERMIT APPLICATIONS, FORM APC-201):  2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. COLLECTING ELECTRODE AREA PER CONTROL DEVICE: FT	5. EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPLAIN RESULTS):
F	ILTER
1. FLUX DIAGRAM DESIGNATIONS OF FILTERS DESCRIBED IN THIS SECTION (RIFORM APC-201):	EFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS."
2. MANUFACTURER:	3. MODEL NAME AND NUMBER:
4. FILTERING AREA PER CONTPOL DEVICE:  FT	5. FILTERING MATERIAL:
6. CLEANING: SHAKER REVERSE AIR POUSE AIR POUSE JET	OTHER(SPECIFY;
	PTI) DUCT (LENGTH FT: STA 14) OTHER(SPECIFF)
9. INLET GAS:	9. EFFICIENCY OF CONTROL PARTAGE TEST RESIDENCE OF EVELAGIN ESTIMATE.:

Ù	··· <del>······</del>	<del> </del>		<del></del>	<del></del>			
ļ					SCRUS			
( '-	FLOW DIAGRAM DESIG	MAT10NS OF SC	RUBBERS DESCR	HEED IN THIS	S SECTION (	REFE	ER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PE	RMIT APPLICATIONS,
2.	MARGIFACTURER:					3.	MODEL NAME AND NUMBER:	•
4.	SCRUBBER TYPE:	<del></del>						
	HIGH ENERGY (	AS STREAM PRE	SSURE DROP		IN	н20)		٠.
	PACKED (PACKIN	G TYPE	; P	ACKING SIZE			IN; PACKED HEIGHT IN)	
	SPRAY (NUMBER	OF NOZZLES	; N	OZZLE PRESSI	JRE		PS1G)	
	OTHER (SPECIFY		A	TTACH DESCRI	IPTION AND	SKET	TCH WITH DIMENSIONED DETAILS)	
5.	SCRUBBER GEOMETRY: LENGTH IN DIREC		LOWIN	; CROSS-SEC	CTION	IN	XIN ORIN DIA; CROSS FLOW	COUNTER FLOW
6.	LIQUID FLOW RATE I	NTO SCRUBBER:			GPM	7.	CHEMICAL COMPOSITION OF SCRUBBANT:	<del></del>
8.	INLET GAS TEMPERAT	URE:			°F	9.	EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EXPARTICULATE X GASEOUS	(PLAIN ESTIMATE):
			<del></del>		······	<del></del>		
				OTHER	TYPES OF C	ONTR	KOL EQUIPMENT	<del></del>
1.	1. FLOW DIAGRAM DESIGNATION OF CONTROL EQUIPMENT DESCRIBED IN THIS SECTION (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS," FORM APC-201):							
2.	GENERIC NAME OF CO	NTROL EQUIPME	NT:	3. MANUFACT	TURER:		4. MODEL NAME AND NUMBER:	
5.	ATTACH DESCRIPTION DIMENSIONED DETAIL			IPMENT WITH		6.	EFFICIENCY OF CONTROL (ATTACH TEST REPORT OR EX	
			<del></del>					
			<del></del>	MAXIMUM EMI	ISSIONS FRO	M EAI	CH IDENTICAL EXIT	·.
	CONTAMINANT	CON	CENTRATION <u>OR</u>	EMISSION RA	ATE		METHOD USED TO DETERMINE CONCENTRATION OR EM	
1.	PARTICULATE MATTER	a.	GR/SCF	b. [	LB/106BTU LB/HR		<del></del>	
2.	CARBON MONOXI DE	a.		<u> </u>	LB/106BTU LB/HR	c.		
3.	NITROGEN OXIDES	à.		b.	LB/106BTU LB/HR	c.		
4.	ORGANIC MATERIAL	a.		2.82 V	LB/106BTU	c.	See Attached Calculation	
5.	SULFUR DIOXIDE	a.	РРМ	Z.82 ∑	LB/106BTU LB/HR	c.	ace recording carearation	
6.	OTHER (SPECIFY)	a.	(VOL)	b. [	LB/10 <sup>6</sup> BTU   LB/HR	c.		
	<del></del>	<del></del>	( VOL )		LEYAK	<u></u>		· · · · · · · · · · · · · · · · · · ·
	<del></del>	·			E YHAUS	T DA	TA	
1.	FURN DIAGRAM DESTE TO MODERAL INSTRU	NATIONS OF EX	ITS DESCRIBED	IN THIS SEC				EMPERATURE:
	EXIT BLAMETER:	UE-4 3" '-	5. EXIT HES			6.	0-2	NCE FROM NEAREST
		J	!		00	1	30 ''	

#### ALKYD AND MONOMER MODIFIED ALKYDS

#### EMISSIONS FROM UE-4

UE-4 - The batch from the reactor (Item G) would be deposited in the prefilter tank (Items M-1 and M-2) which would ordinarily contain a specified amount of solvent (primarily xylene). The batch would be approximately 4500 gallons and would be pumped into the prefilter tank in 60 minutes. Each batch will be in the prefilter tank for approximately 32 hours. Emissions will be the gas volume displaced by the batch.

## FLOW OUT OF TANK

4500 Gallons 
$$(\frac{1 \text{ ft}^3}{7.48 \text{ Gal}}) (\frac{1}{60 \text{ min}}) = 10.03 \frac{\text{CFM}}{\text{Hour}}$$

### EMISSIONS FROM CONDENSER

10.03 CFM at atmospheric pressure, inert gases saturated with xylene at  $90^{\circ}$ F, xylene vapor pressure at  $90^{\circ}$ F is 13mm Hg.

10.03 CFM 
$$\frac{(60 \text{ min})}{(760 \text{mm})} \frac{(13 \text{mm})}{(760 \text{mm})} \frac{(1 \text{ lb mole})}{(387 \text{ ft}^3)} \frac{(106 \text{ lb})}{(1 \text{ mole})} = \frac{2.82 \text{ lbs}}{\text{hour}}$$

FOR AGENCY USE ONLY



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

RESIN PLANT ADDITION

PROCESS EMISSION SOURCE ADDENDUM

REACTOR, DRUM, TOWER OR HEAT EXCHANGER

11541 S. Champlain Avenue

HEAT EXCHANGER - ITEM H

NAME OF OWNER:	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
The Sherwin-Williams Company	
STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
11541 S. Champlain Avenue	Chicago, Illinois 60628

		Liqu	id wapor str	EAM DATA					
FLOW DIAGRAM DESIGNATION	NO. OF IDENTICAL STREAMS ON FLOW	RATE PER STREAM	DISPOSITION (ATMOSPHERE ETC)	COMPOSITION					
2	DIAGRAM			MAT'L	WT %	MAT'L	kT ≉	MAT'L	WT 2
<sup>5a.</sup> Product Stream (Yellow)	1	c. 120,000 LB/HR	d.	е.	f.	9-	h.	i.	j.
Hot Oil Stream (Orange)	1	c. 210,000 LB/HR	d	e	f.	g -	h.	i.	j.
7a.	b.	c.	d.	e.	f.	g.	h.	i.	j.
		LB/HR	:					-	

			SAFETY VAL	VE DATA					
FLOW DIAGRAM DESIGNATION				COMPOSITION					
DESIGNATION	IDENTICAL VALVES	RATE PER VALVE	(ATMOSPHERE ETC)	MAT'L	WT %	MAT'L	₩T %	MAT'L	WT %
3a.	b.	с.	d.	e.	f.	g.	h.	i.	j.
		LB/HR							
Эа.	b.	c.	d.	е.	f.	9.	h.	i.	j.
		LB/HR							
la.	ь.	c.	d	e.	f.	g.	h.	1.	j.
		LB/HR	_						



**************************************	·
RESIN PLANT ADDITION  DATA AND INFORMATION	FOR AGENCY USE ONLY
FUEL COMBUSTION EMISSION SOURCE(A) '	
ITEM Q - HOT OIL HEATER	
	· · · · · · · · · · · · · · · · · · ·
1. NAME OF OWNER: The Shownin Williams Company	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
The Sherwin-Williams Company 3. STREET ADDRESS OF EMISSION SOURCE:	4. CITY OF EMISSION SOURCE:
11541 S. Champlain Avenue	Chicago, Illinois 60628
	•
GENERAL I	NF ORMATION
<ol> <li>FLOW DIAGRAM DESIGNATIONS OF EMISSION SOURCES DESCRIBED ON THIS FO APPLICATIONS," FORM APC-201):</li> </ol>	ORM (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT
6. MANUFACTURER: Vapor Corporation	7. MODEL NUMBER: 8. SERIAL NUMBER: 0G-5932YHK-503
9. AVERAGE OPERATION TIME OF EMISSION SOURCE:	10. PERCENT OF ANNUAL HEAT INPUT:
24 HRS/DAY5 DAYS/WK52 WKS/YR	DEC/FEB 25 * MAR/MAY 25 DUN/AUG 25 * SEP/NOV 25 *
	,
GAS F.	IRING
11. ORIGIN OF GAS: DISTILLATE FUEL OTHER LIQUID FUEL GASIFICATION	SOLID FUEL BY-PRODUCT GASIFICATION (SPECIFY SOURCE )
12. MAXIMUM FIRING RATE: 13. AVERAGE FIRING RA	TE: 14. AVERAGE SULFUR CONTENT:
6,300,000 TU/HR 15. ANNUAL CONSUMPTION: 16. AVERAGE HEAT CONTI	620,000 BTU/HR 0 2 BY WT  ENT: 000 17. ARE YOU ON AN INTERRUPTABLE GAS SUPPLY?
114,090	1,000 BTU/SCF YES X NO
OIL FI	RING
18. MAXIMUM FIRING RATE: 19. AVERAGE FIRING RATE: BTU/HR BTU/HR	20. OIL GRADE NUMBER (1,2,4,5 or 6): GAL
22. AVERAGE HEAT CONTENT:	23. AVERAGE SULFUR CONTENT:
BTU/GAL  24. DIRECTION OF FIRING:	2 BY WT
HORIZONTAL   T.	ANGENTIAL
(A) THIS DATA AND INFORMATION FORM IS TO BE COMPLETED FOR ANY FURNACE	
PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. FOR AN EMISSI SOURCE USING DIRECT HEATING, COMPLETE "DATA AND INFORMATION PRI IN WHICH REFUSE IS BURNED, COMPLETE "DATA AND INFORMATION INCI	OCESS EMISSION SOURCE." FORM APC-220. FOR A COMBUSTION APPARATUS

, 50	OR AGENCY USE ONLY			
	AGENCY USE ONEY	<del></del>		
		·		
			SOLID FE	UEL FIRING
25.	TYPE OF SOLID FUE	L: BITUMINOUS COA	ANTHRACITE	CON TOTAL ACTION
26.	AVERAGE ASH CONTE	<del></del>	ANTHRACITE  27. MAXIMUM FIRING RAT	
Ĺ		% BY WT		BTU/HR ETU
29.	AVERAGE SULFUR CO	NTENT AS FIRED: -		30. MOISTURE CONTENT AS FIRED:
31.	AVERAGE HEATING V	ALUE AS FIRED:	BTU/LB	32. ANNUAL CONSUMPTION:
33.	TYPE OF FIRING:		BTO/ CB	<u> </u>
		Го		
		Į ·	•	LLY OPPOSED OR OTHER
	CYCLONE S	PREADER STOKER(	% REINJECTION)	OTHER (SPECIFY)
			<del></del>	
	UE-5		MAXIMUM EMISSIONS FROM	M EACH IDENTICAL SOURCE*
	CONTAMINANT	CONCENTRATION (	DR EMISSION RATE	METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
34.		a.	b	c.
35.	MATTER CARBON	.06 GR/SCF	.09 LB/10 <sup>6</sup> B	TAPICAL EMISSION TACTORS TOL SOUTCES
3 5.	MONOXIDE	a. PPM (VOL)		under 400 hp using natural gas.
36.	NITROGEN OXIDES	100 (VOL)		c.
37.	ORGANIC	400 (VOL.)	.54	c.
20	MATERIAL	60 (VOL)	.03 LB/10 <sup>6</sup> B	·
38.	SUL FUR DIOXIDE	150 (VOL)	0.295 LB/10 <sup>6</sup> B	1
39.	OTHER (SPECIFY)	a. PPM (VOL)	b.	c
		(100)		<u> </u>
	· · · · · · · · · · · · · · · · · · ·	·	<del></del>	
	UE-5			ST DATA*
40.	TLOW DIAGRAM DEST (REFER TO "GENERA TIONS." FORM APC-	GNATIONS OF EXITS DESCRIE L INSTRUCTIONS FOR COMPLE 201):	SED IN THIS SECTION ETION OF PERMIT APPLICA-	41. MAXIMUM GAS FLOW RATE THROUGH 42. EXIT GAS TEMPERATURE: EACH EXIT: 1500 ACFM 480
43.	EXIT DIAMETER:	44. EXIT I	HEIGHT ABOVE GRADE:	45. MAXIMUM HEIGHT OF NEARBY 46. EXIT DISTANCE FROM NEARES BUILDINGS: PLANT BOUNDARY:
	<del></del>	1.5 FT	76' 6" FT	56 FT FEAT BOOMBART 150
*N0	OTE: COMPLETE THES	E SECTIONS ONLY IF EMISS	IONS ARE EXHAUSTED WITHOL	UT CONTROL EQUIPMENT.



	RESIN PLANT		ON COURCE ADDENDUM	•		FOR AGENCY USE ONLY	
		TAN)	<b>(</b>		·	٠.,	-
	ITEM P - EX	PANSION	TANK FOR ITEM Q				
							_
1.	NAME OF OWNER: The She	rwin-Wi	lliams Company	2. NAME O	F CORPORATE	DIVISION OR PLANT (IF DIFFERENT FROM OWNER):	7
3.	STREET ADDRESS OF EMISSION				F EMISSION		٦
	11541 S	. Champ	ain Avenue	Chi	cago, I	llinois 60628	
			TANK INFO	DRMATION			7
5.	NAME OF TANK MANUFACTURER:			6. DESIGN	ATION OF TA	NK:	7
7	SERIAL NUMBER:	Custon	1	ITEI 8. CAPACI			╝
٠.	SERIAL NUMBER.		•		Gallons		1
9.	TANK USE:					PACITY TANKS STORING SAME MATERIAL:	┪
	Therminol Expansion Tank						4
1.	TANK SHAPE:  HORIZONTAL	. (A).	CYLINDRICAL	SPHERICAL		OTHER(SPECIFY)	ĺ
12.	TANK DIAMETER:		13. TANK HEIGHT:			14. TANK LENGTH:	┪
			п		FT	FT	╛
	STATUS:	ING	☐ ALTERATION	16: TANK T	YPE: ESSURE	FIXED ROOF . FLOATING ROOF OTHER(SPECIFY)	
17.	SEAL: SINGL OTHER	E (SPECIFY)_	DOUBLE	18. AVERAG	E DISTANCE	FROM TOP OF TANK SHELL TO LIQUID:	
19.	. SHELL TYPE:.  RIVETED X WELDED OTHER(SPECIFY)			20. PAINT	COLOR:		
VENT VALVE DATA							1
	TYPE OF VENT	NUMBER OF VENTS	PRESSURE SETTING		(	DISCHARGE VENTED TO ATMOSPHERE, FLARE, ETC.)	
21.	COMBINATION	a.	b. PSIG	c.			
22.	PRESSURE	a.	b. PSIG	c.			
23.	VACUUM	a	b. PSIG	c.			
24.	OPEN	a.	b. PSIG	с.			1

•

GALS/

□ NO

BBL5'DAY

GALS/DAY

FOR POSITION USE ONLY	·
THERMINOL OO	MIAL TO BE STORED
THERMINOL - HEATING MEDIA OIL	26. DENSITY: 63 LB/FT 27. VAPOR PRESSURE AT 70'F: 0.1mm Hg @200°F PSIE
	•
9072	PAGE COMPITIONS
ZE. STOPAGE TEMPERATURE: Ambient	29. TANU. TURN OVER PER YEAR: DESUS/

**Expansion Changes** 

33. PERMANENT SUBMERGED LOADING PIPE USED?

IF VAPOR LOSS CONTROL DEVICE IS USED. COMPLETE "DATA & INFORMATION -- AIR POLLUTION CONTROL EQUIPMENT," (FORM APC-260), AS PART OF THIS APPLICATION.

31. AVEFAGE THROUGHPUT:

B.P. of oil is quite high; that is why it is used as a heating media.

EBLS/DAY

GALS/DAY

MUMIXAM

□ NO

Expansion Changes

NO K

MUNICIPAL PROPERTY

MAXIMUM FILLING RATE:

34. VAPOR LOSS CONTROL DEVICE?

YES

PRESSURE EQUALIZERS USED?



RESIN PLANT ADE	OITION SION SOURCE ADDENDUM			FOR AGENCY USE ONLY			
	TANK		•	`			
ITEM J - EMERGE	NCY OVERFLOW TA	NK		· · · · · · · · · · · · · · · · · · ·			
				•			
1. NAME OF OWNER:		2. 1	NAME OF CORPORATE	DIVISION OR PLANT (IF DIFFERENT FROM OWNER):			
3. STREET ADDRESS OF EMISSION SOUR	Œ:	4. 0	CITY OF EMISSION :	SOURCE:			
		TANK INFORMATION	N				
5. NAME OF TANK MANUFACTURER:	Company	6. [	DESIGNATION OF TAI	NK:			
Imperial Steel Tank 7. SERIAL NUMBER:	Company	8. 0	Item J				
•			15,000 Gallons				
9. TANK USE: Catch liquids	discharged whe		NUMBER OF SAME CAR	PACITY TANKS STORING SAME MATERIAL:			
rupture_disc_relieves_r 1. TANK SHAPE: 		lter   nks. □ SPHERI		OTHER(SPECIFY)			
12. TANK DIAMETER:	13. TANK H	EIGHT:		14. TANK LENGTH:			
15. STATUS:	9 <sub>FT</sub>		FT	33 FT			
New EXISTING	☐ ALTER		ANK TYPE:  PRESSURE	FIXED ROOF . FLOATING ROOF OTHER(SPECIFY)			
17. SEAL: SINGLE	DOUBL1	E 18. A	VERAGE DISTANCE	FROM TOP OF TANK SHELL TO LIQUID:			
19. SHELL TYPE:	None None		Empty PAINT COLOR:	· Fī.			
RIVETED X WELDED	OTHER(SPECIFY)		White				
VENT VALVE DATA  NUMBER  DISCHARGE VENTED TO							
	VENTS PRESSURE SI	ETTING	(/	DISCHARGE VENTED TO ATMOSPHERE, FLARE, ETC.)			
21. COMBINATION a.	b.	PSIG c.					
22. PRESSURE a.	b.	PSIG c.					
23. VACUUM a	b.	PSIG c.					
24. OPEN a. 1	b	PSIG c. Op	en vent to	atmosphere			

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₩FÚR AGENCY USE ONLY							
MATERIAL TO BE STORED							
25. MATERIAL: Alkyds and Monomer Modified Alkyds	26. DESISTY: 27. VAPOR PRESSURE AT 70"F: 2.0-7.0mm Hg						

STORAGE CONDITIONS							
∠≅.	STORAGE TEMPERATURE: Ambient	MUMIXAM		29. TANK TURN OVER PER YEAR:	0	DBLS/ GALS/	
30.	MAYIMUM FILLING RATE: Emergency Only		☐ EBLS/DAY ☐ GALS/DAY	31. AVEFAGE THROUGHPUT:	Ó	BBLS'DAY GALS/DAY	
32.	PRESSURE EQUALIZERS USED?  YES	□X NO		33. PERMANENT SUBMERGED LOADIN	G PIPE USED?	ON KX	
34.	VAPOR LOSS CONTROL DEVICE?  YES  X NO			ROL DEVICE IS USED, COMPLETE "DA " (FORM APC-260), AS PART OF THI		AIR POLLUTION	